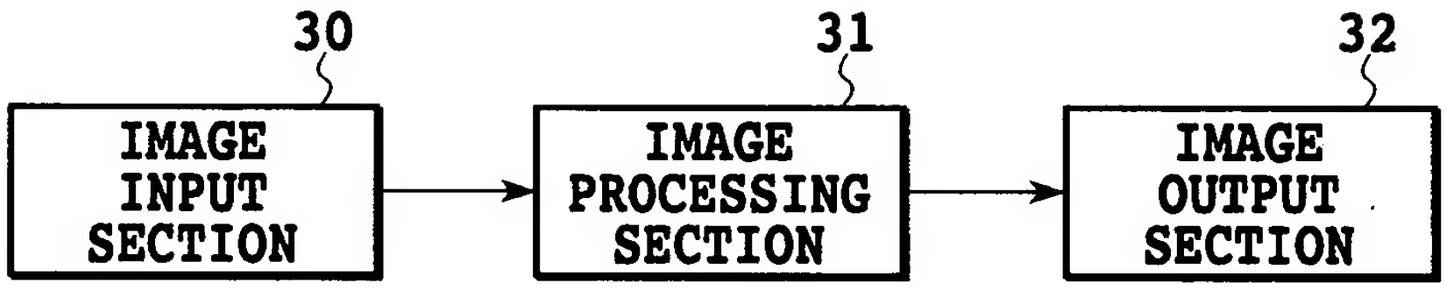

30
IMAGE INPUT SECTION
31
IMAGE PROCESSING SECTION
32
IMAGE OUTPUT SECTION

FIG.1

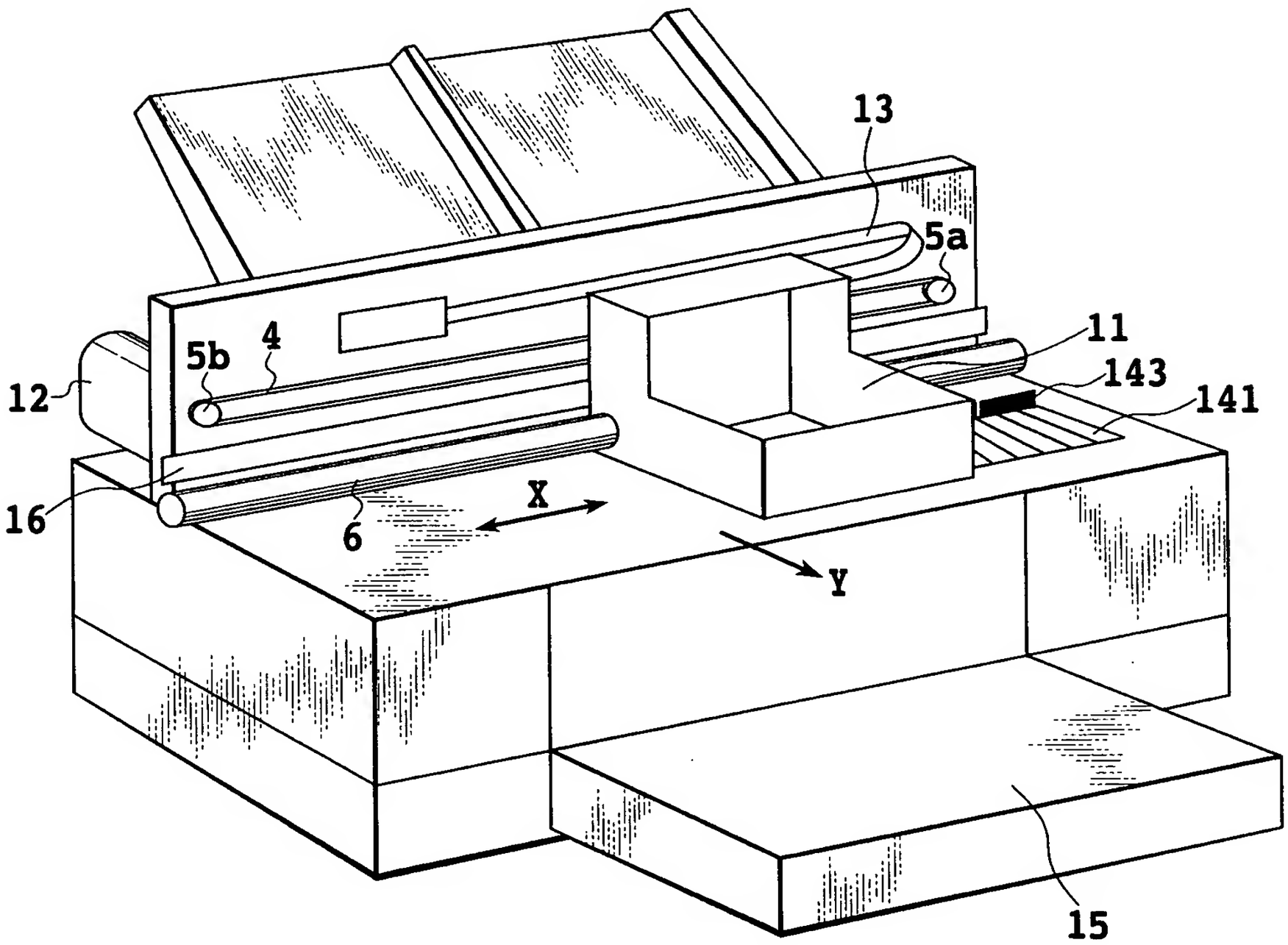


FIG.2

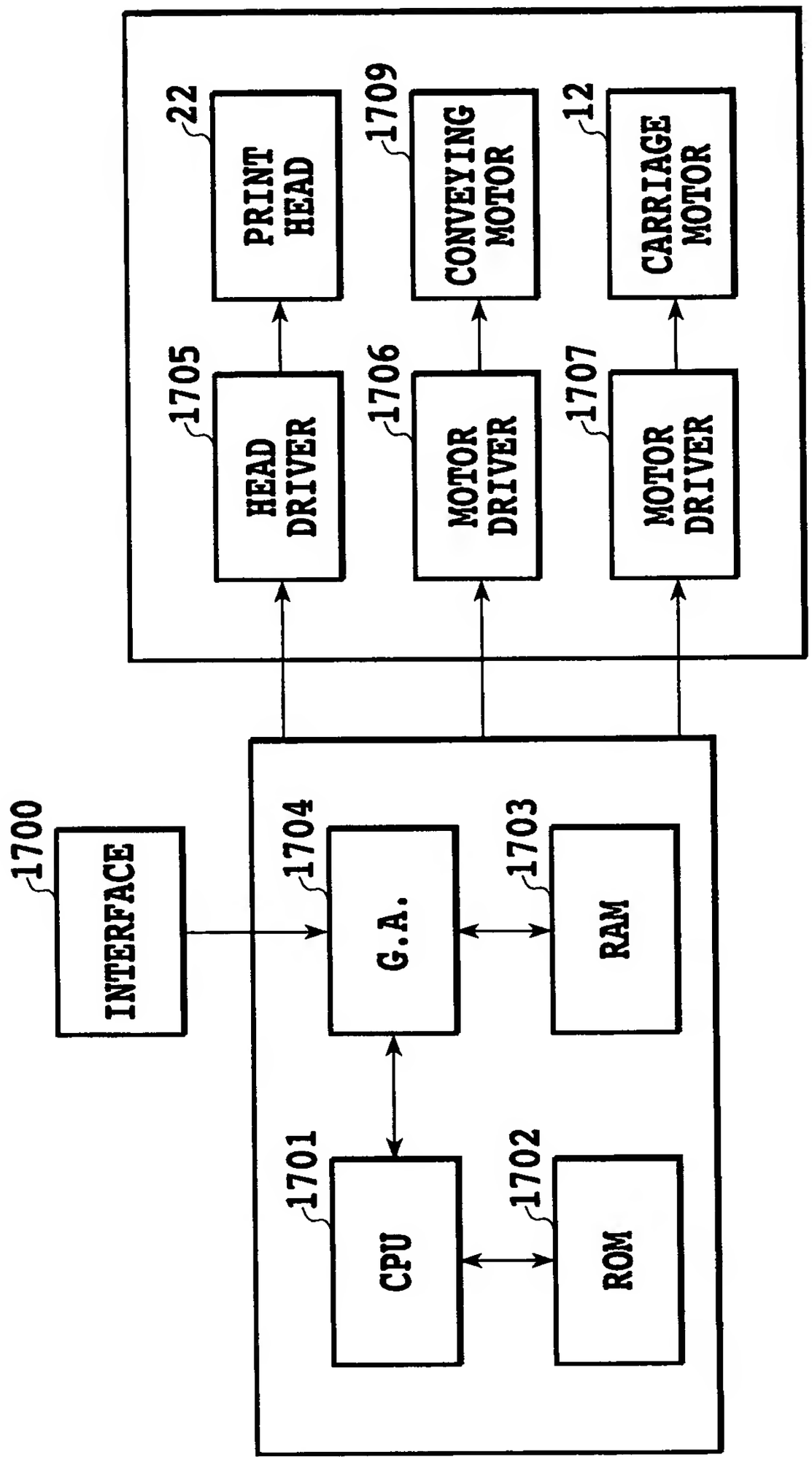

1700
INTERFACE
1704
G.A.
1703
RAM
1701
CPU
1702
ROM
1705
HEAD DRIVER
1706
MOTOR DRIVER
1707
MOTOR DRIVER
22
PRINT HEAD
1709
CONVEYING MOTOR
12
CARRIAGE MOTOR

FIG.3

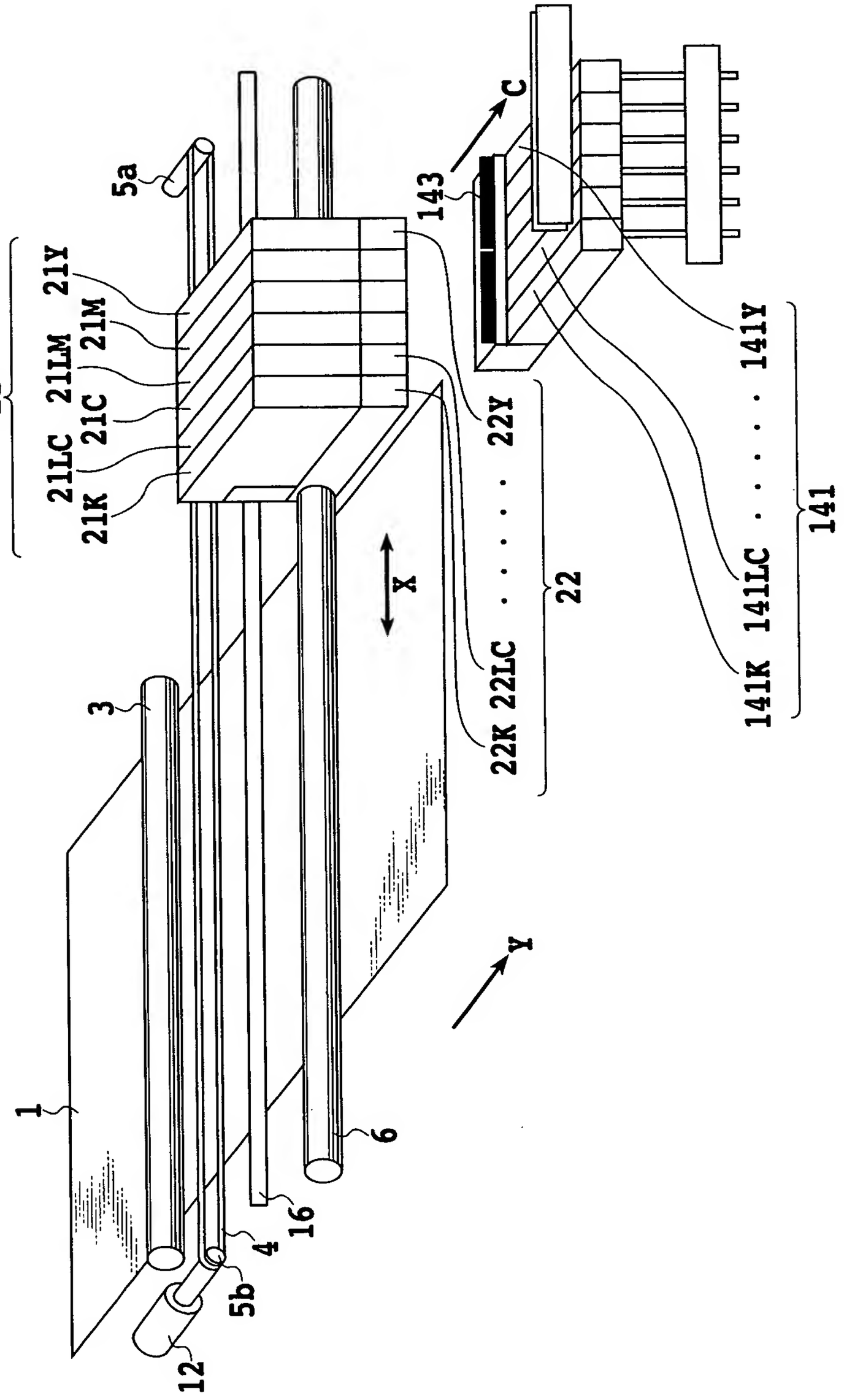

5a
143
C
21Y
21M
21LM
21C
21LC
21K
21
22K
22LC
22Y
22
141K
141LC
141Y
141
X
3
1
12
5b
4
16
6
y

FIG.4

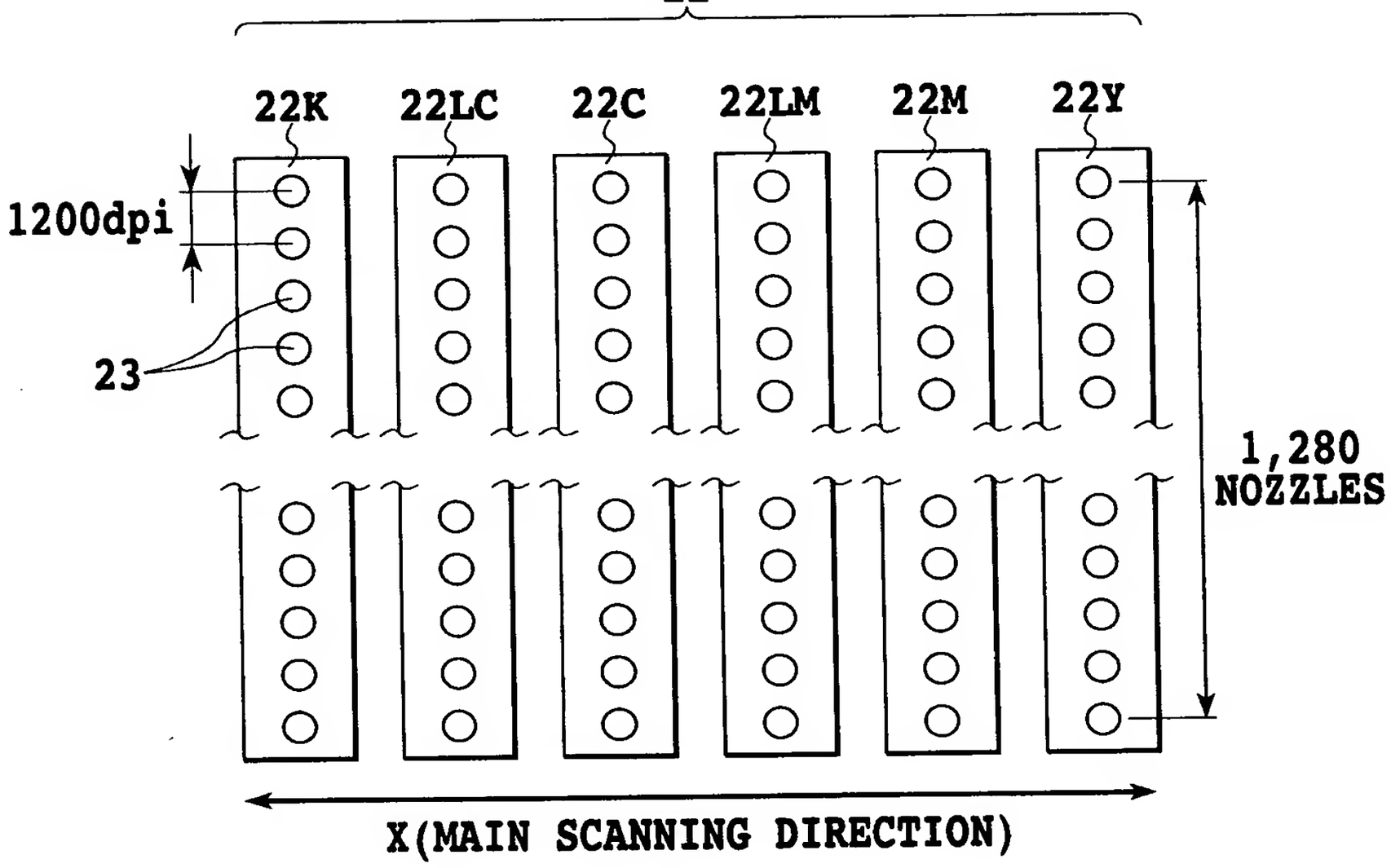

22
22K
22LC
22C
22LM
22M
22Y
1200dpi
23
1,280
NOZZLES
X(MAIN SCANNING DIRECTION)

FIG.5

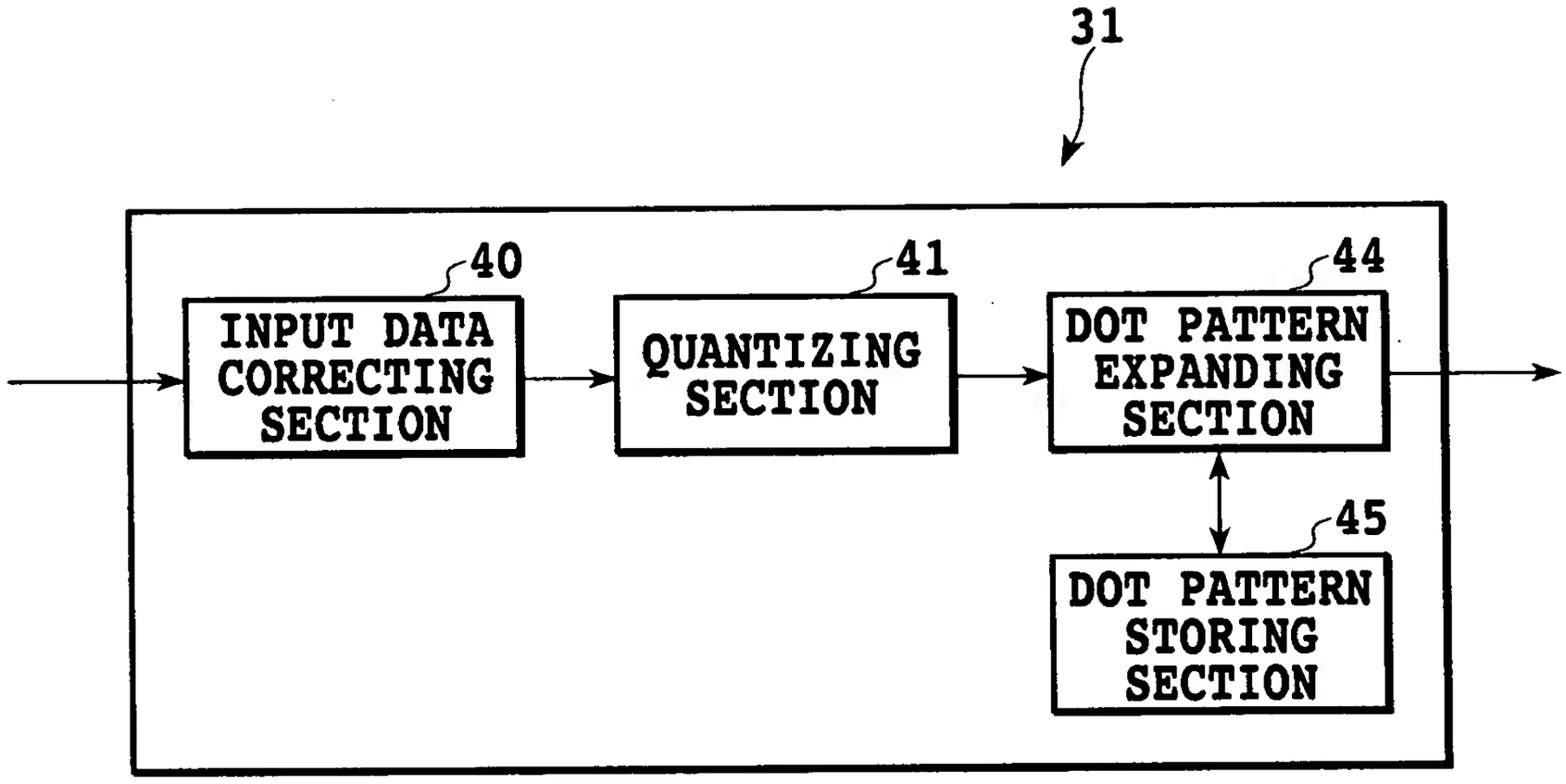

31
40
INPUT DATA CORRECTING SECTION
41
QUANTIZING SECTION
44
DOT PATTERN EXPANDING SECTION
45
DOT PATTERN STORING SECTION

FIG.6

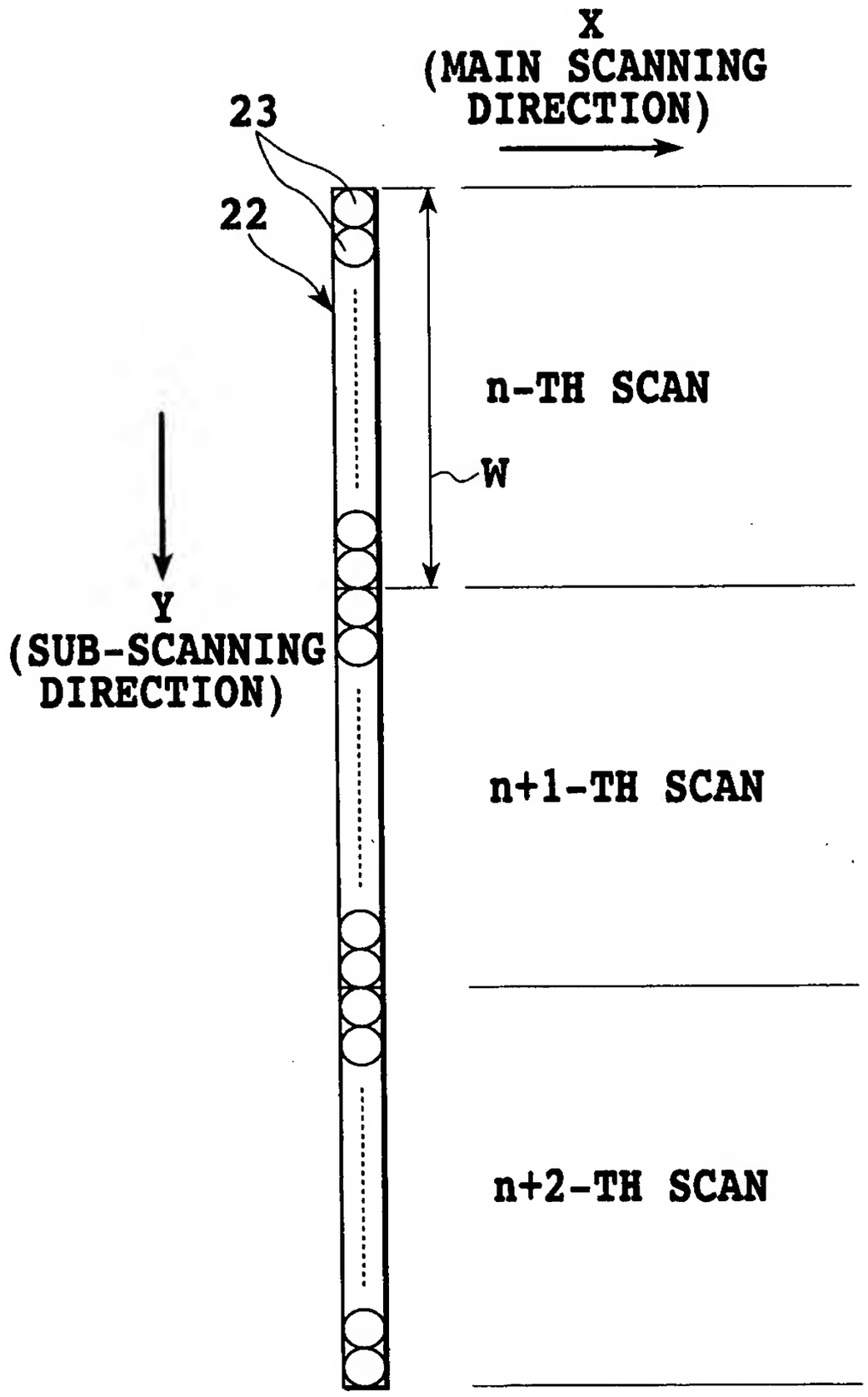

X
(MAIN SCANNING
DIRECTION)
23
22
n-TH SCAN
W
Y
(SUB-SCANNING
DIRECTION)
n+1-TH SCAN
n+2-TH SCAN

FIG.7

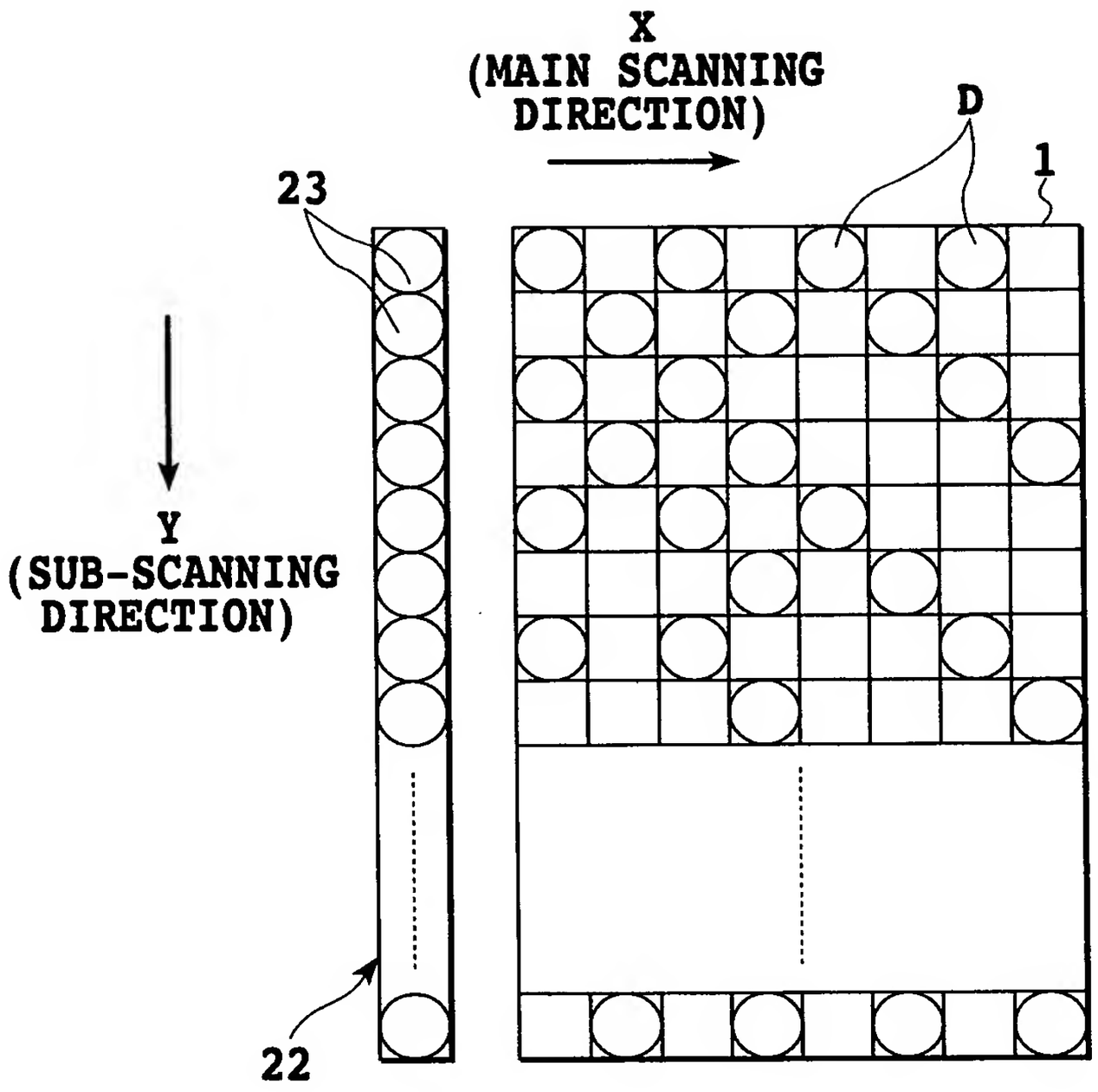


FIG.8

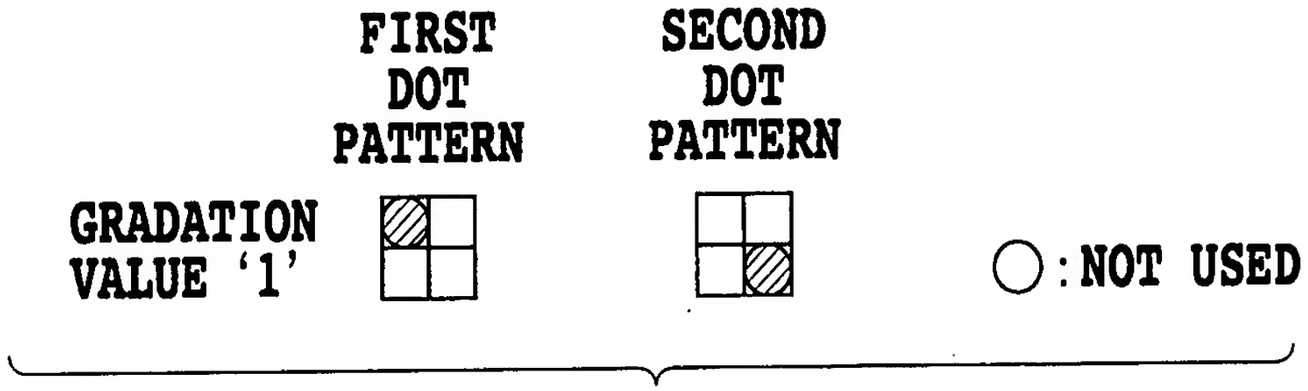


FIG.9A

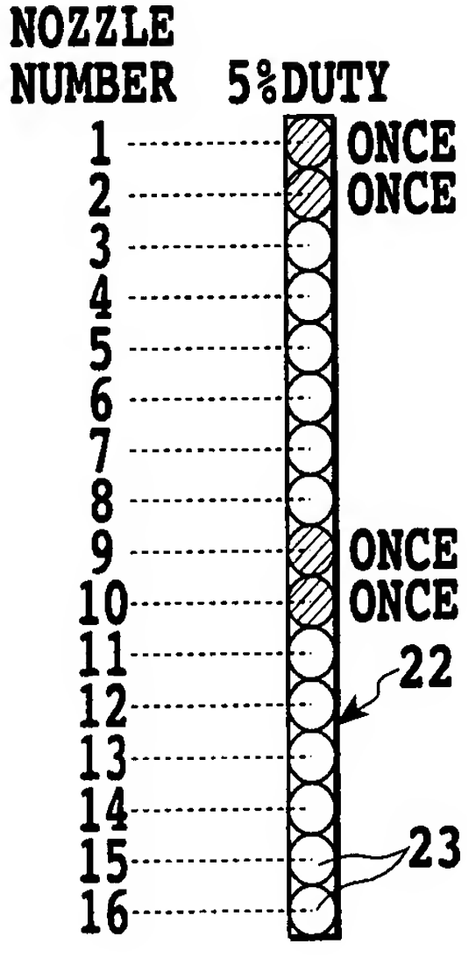


FIG.9B

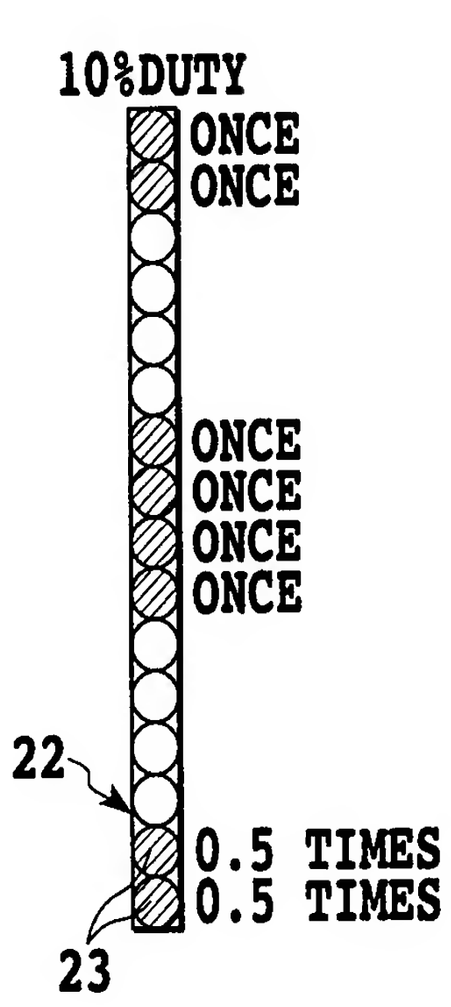


FIG.9C

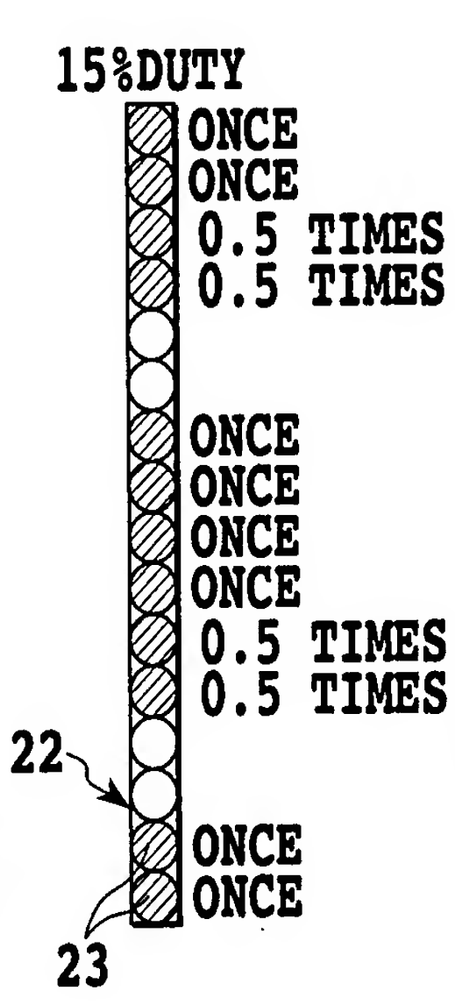


FIG.9D

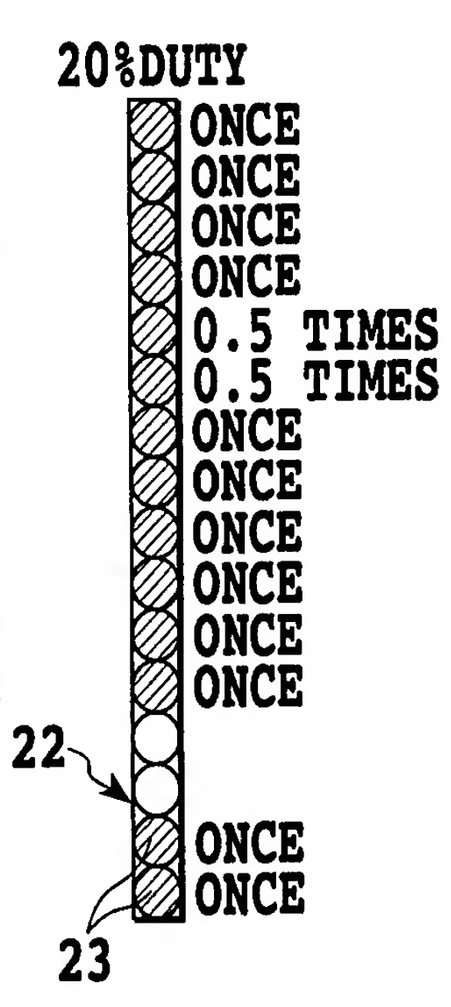


FIG.9E

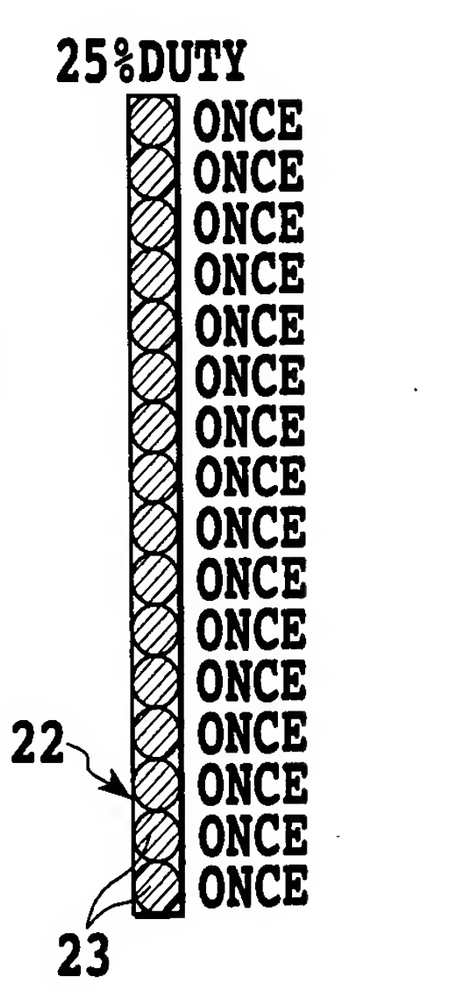


FIG.9F

GRADATION VALUE '1' ▨ ○ : NOT USED

FIG.10A

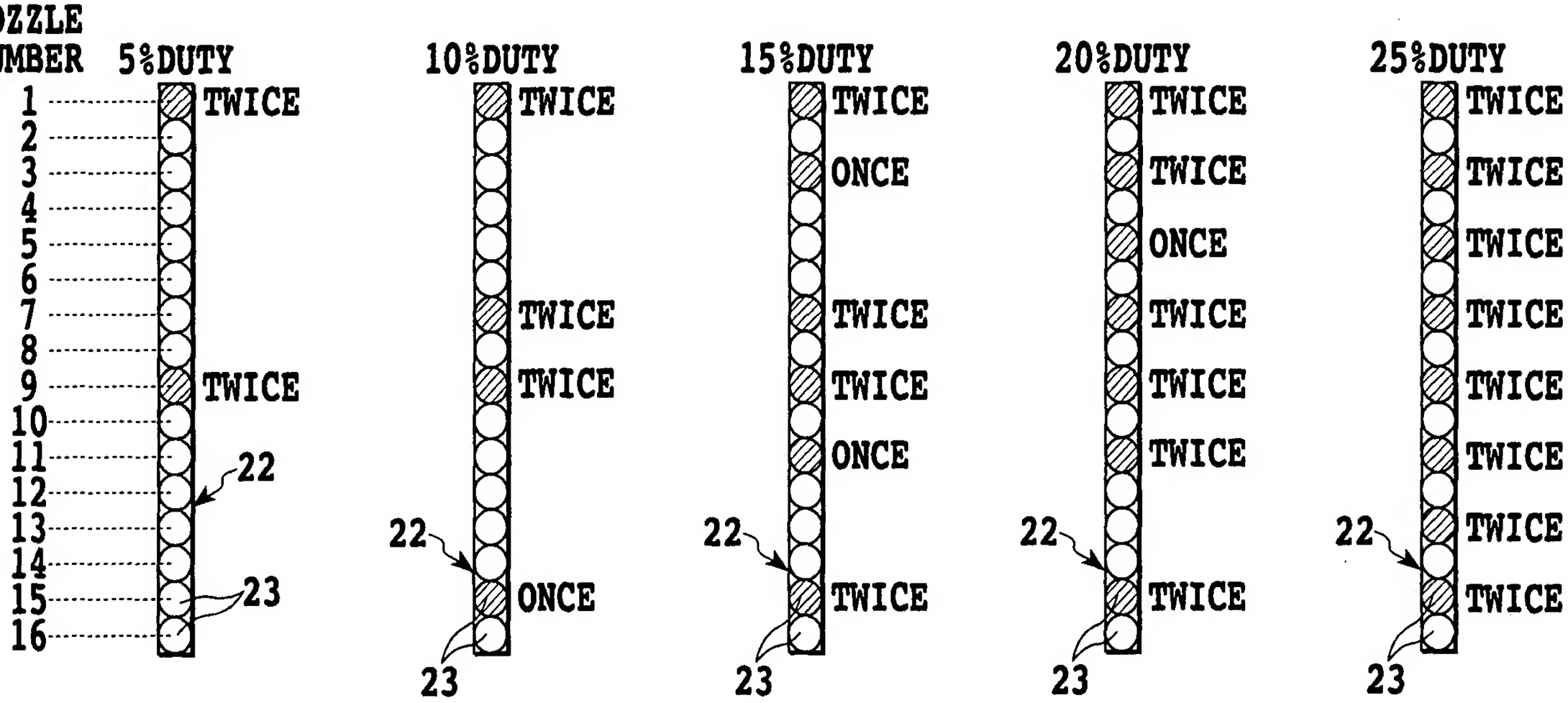


FIG.10B FIG.10C FIG.10D FIG.10E FIG.10F

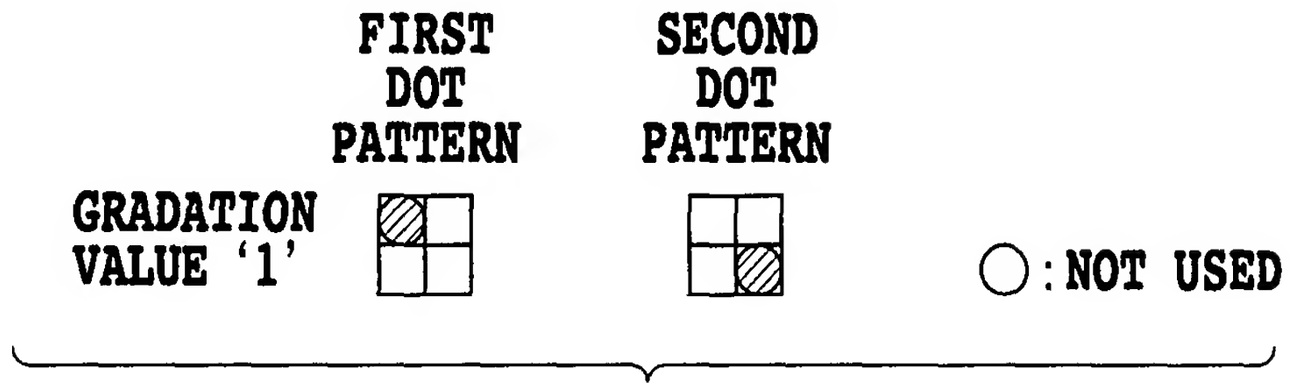


FIG.11A

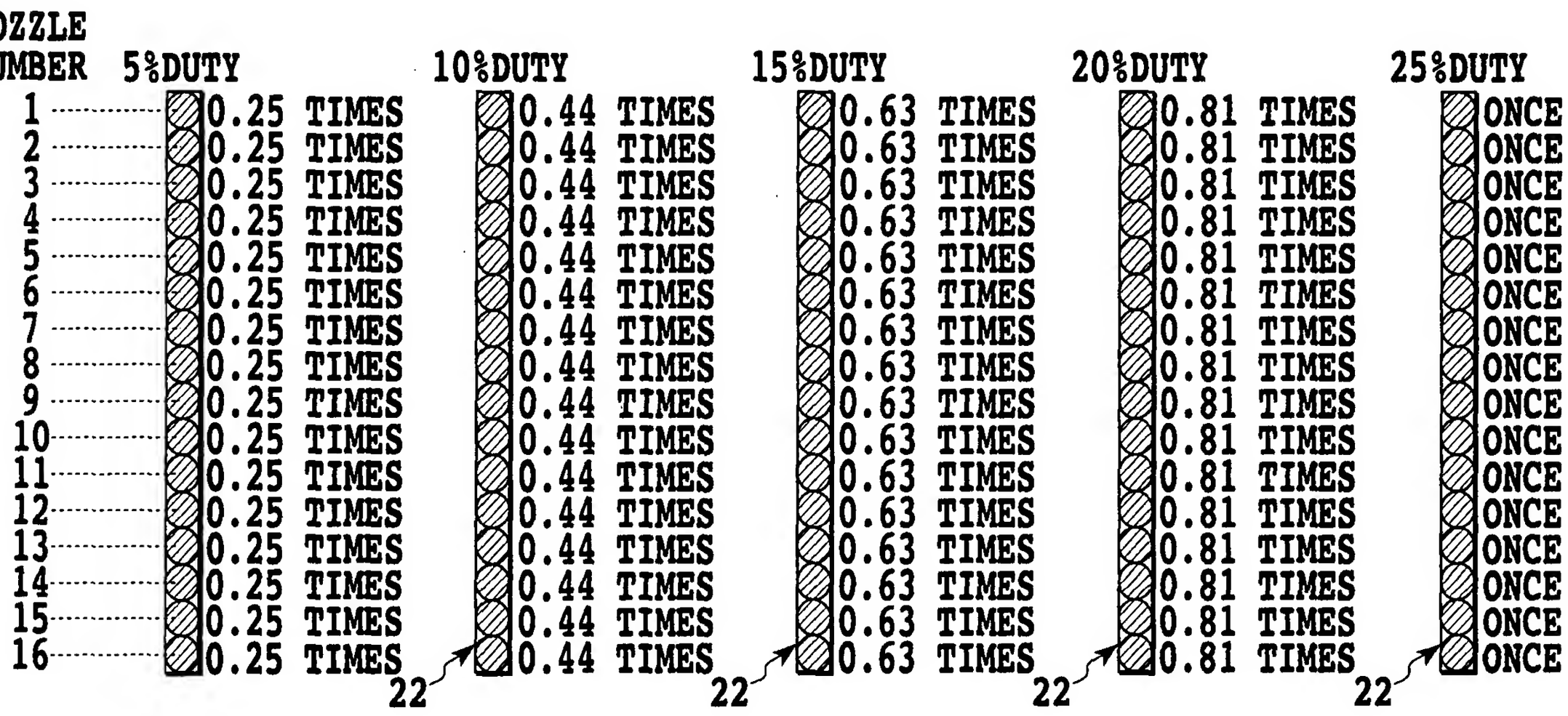


FIG.11B FIG.11C FIG.11D FIG.11E FIG.11F

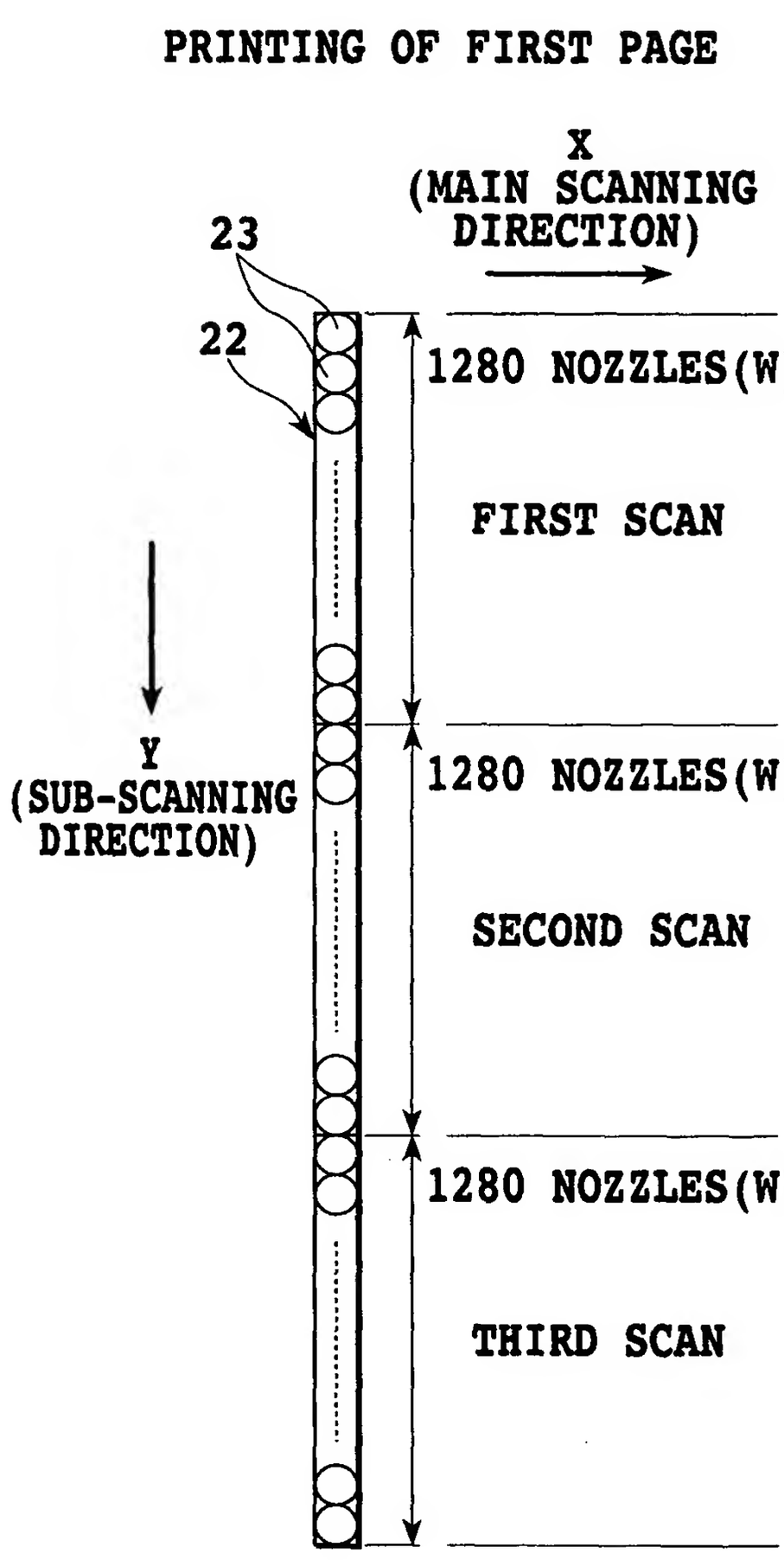


FIG.12A

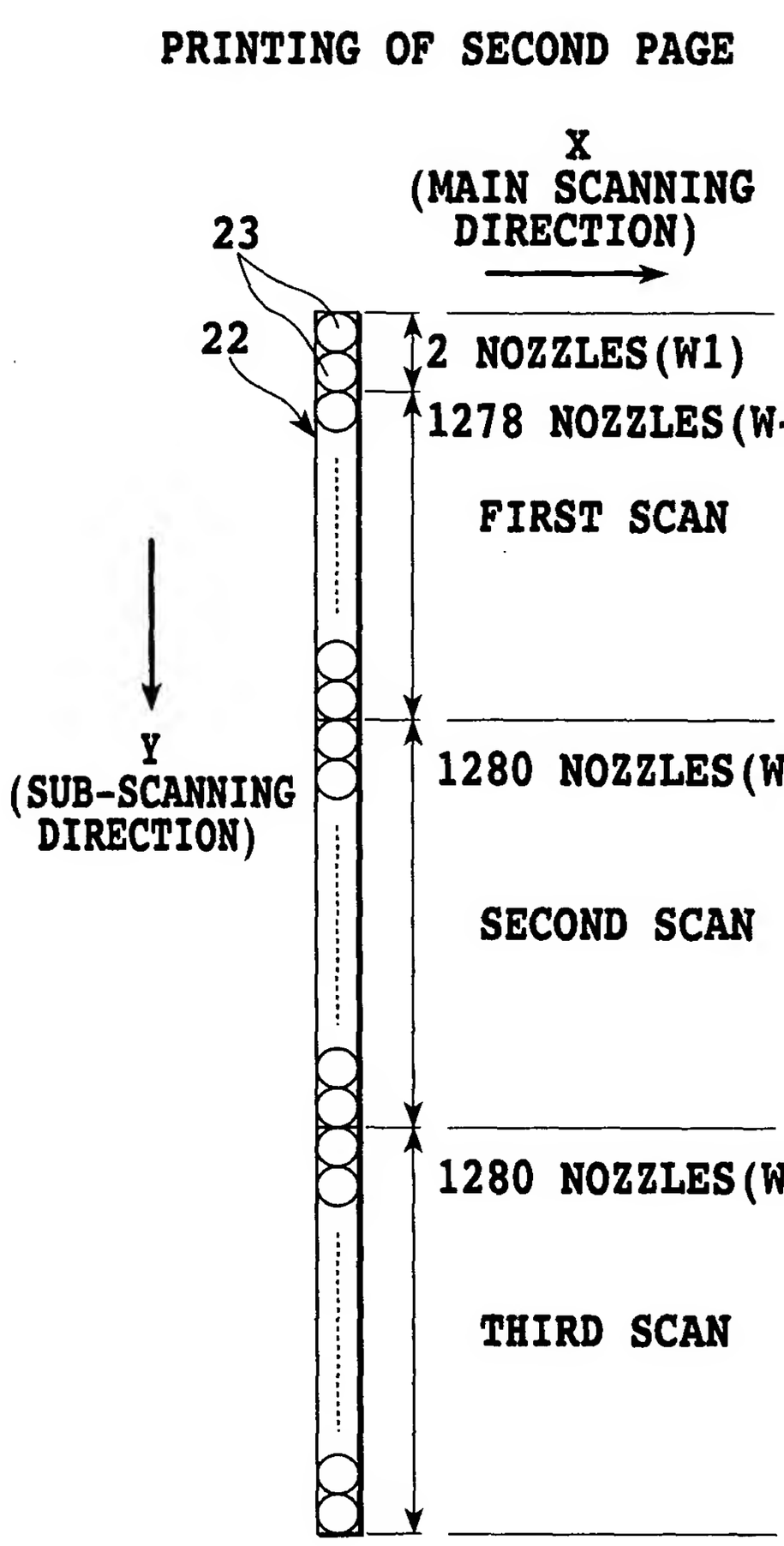


FIG.12B

GRADATION PATTERNS(8×8)

0	128	224	96	8	136	232	104
192	64	32	160	200	72	40	168
48	176	208	80	56	184	216	88
240	112	16	144	248	120	24	152
140	12	108	236	132	4	100	228
76	204	172	44	68	196	164	36
188	60	92	220	180	52	84	212
124	252	156	28	116	244	148	20

FIG.13

FIG.14A

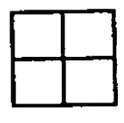


FIG.14B

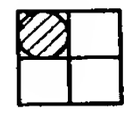


FIG.14C

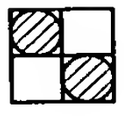


FIG.14D

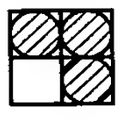
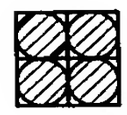


FIG.14E



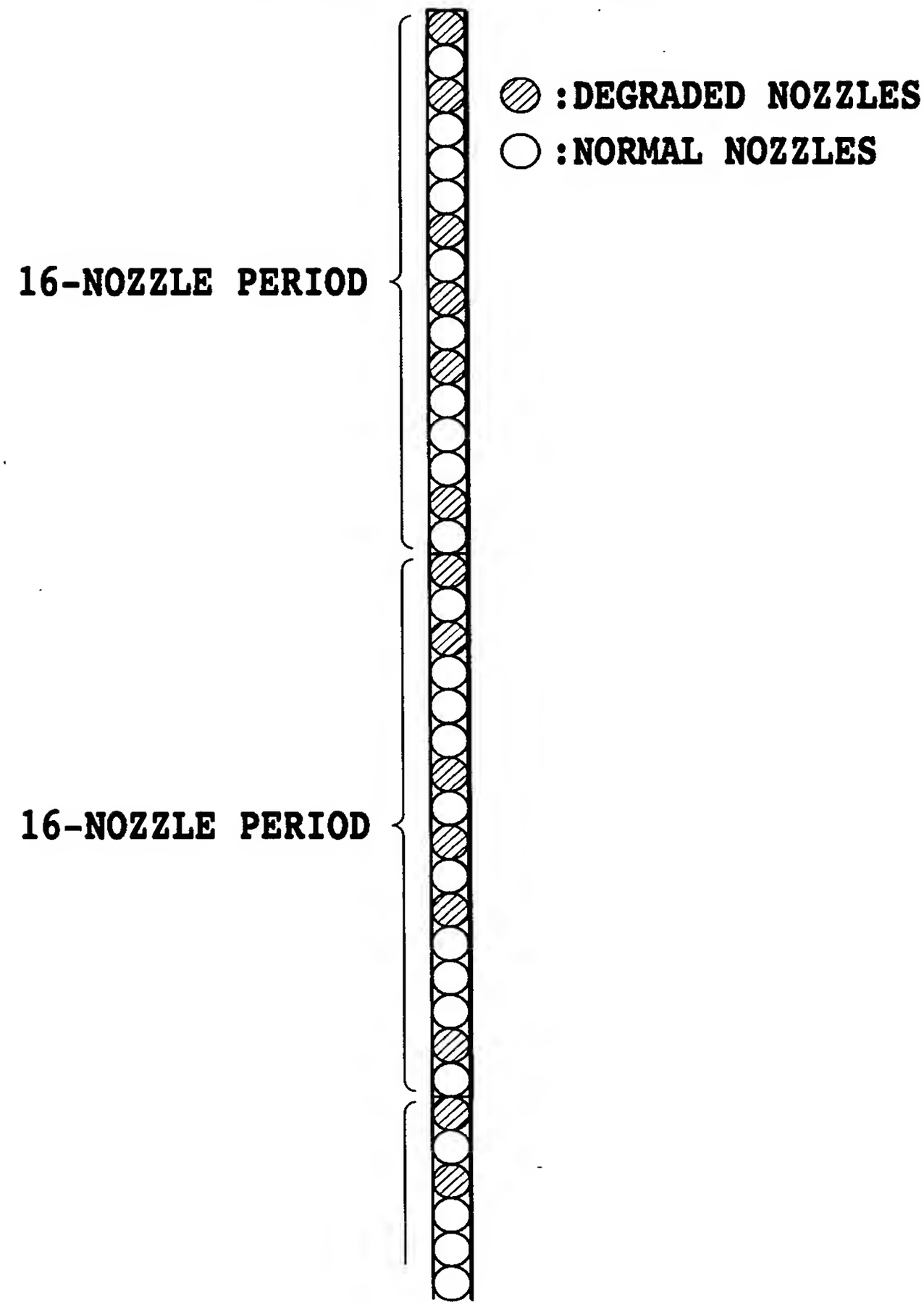

NOZZLES IN PRINT HEAD
:DEGRADED NOZZLES
:NORMAL NOZZLES
16-NOZZLE PERIOD
16-NOZZLE PERIOD

FIG.15

GRADATION
VALUE '1'

FIG.16A

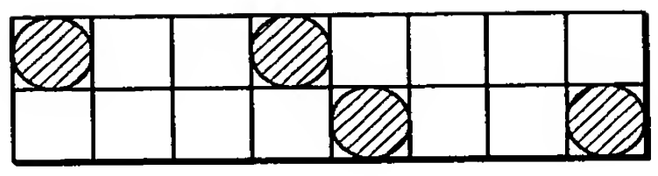
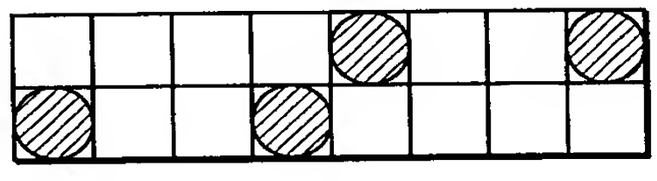


FIG.16B



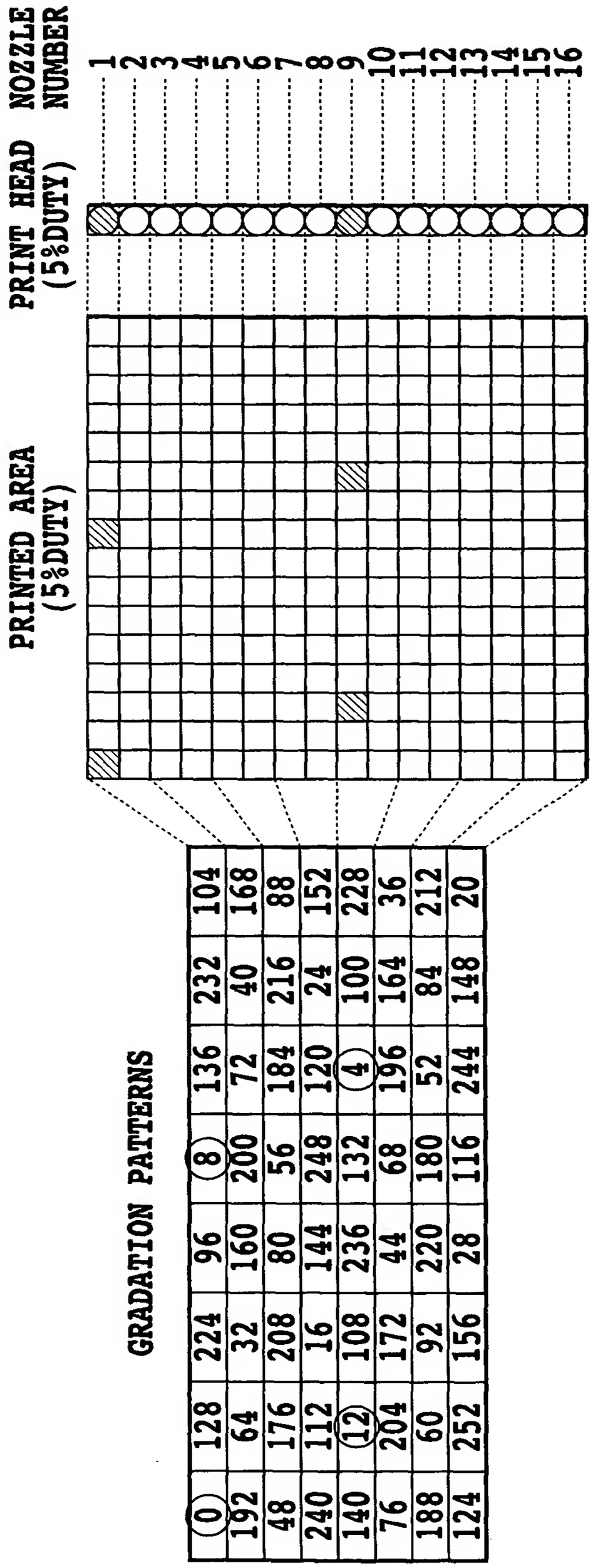

PRINT HEAD NOZZLE NUMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
PRINTED AREA (5%DUTY)
GRADATION PATTERNS
0 128 224 96 8 136 104 168 88 152 228 36 212 20
192 64 32 160 200 72 232 40 216 24 100 164 84 148
48 176 208 80 56 184 120 4 196 52 180 116 244 12
240 112 16 144 248 120 12 108 236 44 220 92 28 156
140 12 108 236 132 4 196 52 180 116 244 12 252 60
76 204 172 44 68 196 52 180 116 244 12 252 60 188
188 60 92 220 180 52 116 244 12 252 60 188 124 156
124 252 156 28 116 244 12 252 60 188 124 156 92 220

FIG.17